Sanitized Copy Approved for Release 2010/03/18 : CIA-RDP80T00246A033100480001-1

OCR

INFORMATION REPORT INFORMATION REPORT

Carlotte Carlotte

CENTRAL INTELLIGENCE AGENCY

This material contains information affecting the National Defense of the United States within the meaning of the Espionage Laws, Title 18, U.S.C. Secs. 783 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

		S-E-C-R-E-	<u>"</u>		25 X 1
COUNTRY	USSR (Tula Obla	ast)	REPORT	T	
SUBJECT	Power Station in	n Cherepitsa 🕻	DATE DISTR.	27 March 1957	
	Description ;	; Capacity	NO. PAGES	1	
	,	-	REQUIREMENT NO.	RD	
				KD	25X1
DATE OF INFO. PLACE &			REFERENCES		
DATE ACC	SOURCE EVALUA	ATIONS ARE DEFINITIVE. A	APPRAISAL OF CONTEN	IT IS TENTATIVE.	
t] g	the first super-hig Its present capacit Whe report further	, E 34-21). The rep h pressure, steam tur y of 300,000 kw is to provides technical d controlled; turbines	bine power station to the doubled under late on bodlers;	ne installation a on completed in t the Sixth Five-Ye furnaces, which a	as being the USSR. ear Plan . re automati
				2	5X1
				2	5X1
				2	5X1
				2	5X1
				2	5X1
				2	5 X 1
				2	5 X 1
				2	5X1
				2	5 X 1
				2	5X1
		S-E-C-R-E-	- T		5X1
		S-E-C-R-E-	-Т		
	X ARMY X NAVY	S-E-C-R-E-	-Т		

NEORMATION REPORT INFORMATION REPORT

SECRET

25**X**1

U. S. S. R.

ECONOMIC

CHEREPITSA Power Station

25X1

1. <u>LOCATION AND FUNCTION</u>

CHEREPITSA Power Station at CHEREPITSA (53°13'N: 34°21'E), in TUL'SKAYA OBLAST, is the first super-high-pressure steam turbine power station to be completed in the U.S.S.R. The station is controlled by "MOSERERGO" organization.

2. OUTPUT

The capacity of the station was 300,000 KW 25X1 Under the 6th Five-Year Plan, the station is to be expanded to double this figure.

3. FUEL

Fuel used is low-grade brown coal with a calorific value of 2,500 cal/kg, ash 30%, moisture content: 33-45%. The use of low-grade fuel of this type enables better quality coal to be reserved for other branches of industry. The power station is sited close to the mines producing the coal, in order to minimize transport costs.

4. TECHNICAL DATA

The station is of the condensation type, constructed on the block system with two boilers and one turbine comprising one generating unit. Details of plant are as follows:

SECRET

A

/(a)

25X1



25X1

- 2 -

(a) Boilers.

Five boilers of identical drum type, fitted with radiation, convection and intermediate superheaters; made by the KRASNY KOTEL'SCHIK Factory, TAGANROG.

- Steam Producing capacity: 240 t/h. (i)
- (ii) Pressure: 175at.
- (iii) Temperature of superheated steam: 555°C.
- (iv) Intermediate superheated steam: 343°-525°C.

(b) Furnaces.

The furnaces are provided with square type (sic) slotted, revolving burners using powdered coal. They are automatic, electronically controlled.

- Pulverizers: steel-ball trunk-type, two per furnace.
- (ii) Smoke purifers: Electric filter.
- (iii) Ash disposal: low pressure water system.

(c) Turbines

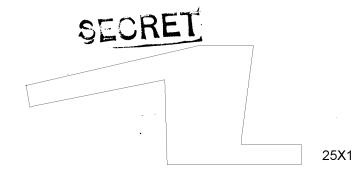
There are two turbines of identical type, made by the LENINGRAD Ironworks.

- (i) Output: 150,000 H.P.
- (ii) Pressure of steam at input: 170at.
- (iii) Temperature of steam (superheated): 550°C.

(d) Generators

Two synchronized generators of identical type made by the ELECTROSILA Factory, LENINGRAD:

- (i) Output: 167,000 KW
- (ii) Cycles: 50.
- (iii) COS ↑: 0.9



- 3 -

(e) Transformers - made by the MOSCOW Transformer Factory:

Output	Pressure	Coupling
3 x 60,000 kW	18/220 KV	Y/\(\D)
1 x 31,500 KW	18/121 KV	n
1 x 60,000 KW	18/121 KV	Ħ
1 x 20,000 KW	121/6 KV	11

2	E	ß	R	F	ľ
-	-	м	41	•	

25X1